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Chemical Category		TERTIARY AMYL METHYL ETHER (994-05-8)	

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February 22, 1995

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Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

ATTN: 8(d) Health and Safety Data Reporting

Dear Sir or Madam:

In accordance with TSCA Section 8(d) and the recent final rule published in 59 FR60716, Amoco Corporation, on behalf of its Petroleum Products Sector, is herein submitting health and safety studies on ethyl tertiary butyl ether (CAS # 637-92-3) and tertiary amyl methyl ether (CAS 994-05-8).

The following studies are included:

Ethyl *tert*-butyl ether:

4- week inhalation toxicity in rats 86950000144
Acute inhalation toxicity in rats 1145
Acute dermal toxicity in rabbits 1146

tert-Amyl methyl ether:

4-week inhalation toxicity in rats 1147
Acute inhalation toxicity in rats 1148
Acute dermal toxicity in rabbits 1149
Acute oral toxicity in rats 1150
Abbreviated acute dermal irritancy/corrosivity in rabbits 1151 ✓

If you have any questions or need further information, please contact Sharon S. Ziegel (312/856-6166) of my staff.

Sincerely,

Susan L. Schmitt

SLS/SSZ

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TO
86950000151

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This sheet comprises the complete report for this study.

ABBREVIATED ACUTE DERMAL IRRITANCY / CORROSIVITY STUDY OF
TERTIARY AMYL METHYL ETHER (TAME) IN RABBITS

Study No. 1649
Test Article No. 691

Treatment Initiation Date: February 26, 1991
Biophase Termination Date: March 1, 1991
Amoco I.D. Number: LF-9128

SUMMARY

Tertiary Amyl Methyl Ether (TAME) was applied for 4 hours to the shaved backs of three rabbits at a dose of 0.5 ml. Following unwrapping, the test sites were rinsed with approximately 1 ml of light mineral oil. All test sites were examined for signs of dermal irritation (i.e., edema, erythema and/or eschar formation) and corrosivity (i.e., ulceration and/or necrosis) 30-60 minutes, 24, 48 and 72 hours following removal of the wrappings.

The irritation score ranged from 4.3/8.0 at 30-60 minutes to 5.0/8.0 at 24 hours following unwrapping. The Primary Dermal Irritation Score for Tertiary Amyl Methyl Ether (TAME) was 4.7.

No signs of dermal corrosivity were seen in any rabbit during the study.

STUDY PARTICIPANTS:

Christopher Lord, Experimentalist

This summary was prepared by J. Fred Krueger, M.S., Technical Editor.



Nabil Hatoum 3/6/91
Nabil Hatoum, Ph.D., D.A.B.T. Date
Director, Amoco Toxicology Program
Life Sciences Research

William Johnson 3/6/91
William Johnson, Ph.D., D.A.B.T. Date
Study Director
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